



Patent

Attorney's Docket No. 020600-280

APT 1655
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of)
Günter SCHMIDT et al.) Group Art Unit: 1655
Application No.: 09/341,641)
Filed: September 9, 1999)
For: NUCLEIC ACID SEQUENCING)

AMENDMENT AND REPLY TRANSMITTAL LETTER

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Enclosed is an Amendment and Reply for the above-identified patent application.

A Petition for Extension of Time is also enclosed.

A Terminal Disclaimer and a check for [] \$55.00 (248) [] \$110.00 (148) to cover the requisite Government fee are also enclosed.

Also enclosed is _____.

Small entity status is hereby claimed.

Applicant(s) request continued examination under 37 C.F.R. § 1.114 and enclose the [] \$355.00 (279) [] \$710.00 (179) fee due under 37 C.F.R. § 1.17(e).

Applicant(s) previously submitted ___, on ___, for which continued examination is requested.

Applicant(s) request suspension of action by the Office until at least ___, which does not exceed three months from the filing of this RCE, in accordance with 37 C.F.R. § 1.103(c). The required fee under 37 C.F.R. § 1.17(i) is enclosed.

A Request for Entry and Consideration of Submission under 37 C.F.R. § 1.129(a) (146/246) is also enclosed.

No additional claim fee is required.

An additional claim fee is required, and is calculated as shown below:

AMENDED CLAIMS					
	NO. OF CLAIMS	HIGHEST NO. OF CLAIMS PREVIOUSLY PAID FOR	EXTRA CLAIMS	RATE	ADDT'L FEE
Total Claims	19	MINUS 20 =	0	$\times \$18.00 \text{ (103)}$ =	0
Independent Claims	2	MINUS 3 =	0	$\times \$80.00 \text{ (102)}$ =	0
If Amendment adds multiple dependent claims, add \$270.00 (104)					
Total Amendment Fee					
If small entity status is claimed, subtract 50% of Total Amendment Fee					
TOTAL ADDITIONAL FEE DUE FOR THIS AMENDMENT					
0					

A claim fee in the amount of \$ _____ is enclosed.

Charge \$ _____ to Deposit Account No. 02-4800.

The Commissioner is hereby authorized to charge any appropriate fees under 37 C.F.R. §§ 1.16, 1.17, 1.20(d) and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 02-4800. This paper is submitted in duplicate.

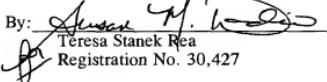
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Respectfully submitted,

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Application No.: 09/341,641) Examiner: A. Chakrabarti
Filing Date: September 9, 1999)
For: NUCLEIC ACID SEQUENCING)

*C/11
P/P
A/12/07*

AMENDMENT AND REPLY

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

In complete response to the Official Action mailed on November 7, 2000, please amend the application as follows:

IN THE CLAIMS:

Please replace claims 21 and 33 as follows:

21. (Amended) A method for sequencing DNA, which comprises:

(a) obtaining a target DNA population comprising a heterogeneous population of single-stranded DNAs to be sequenced, each of which is immobilized in a unique amount in the same reaction zone and bears a primer to provide a double-stranded portion of the DNA for ligation thereto;

(b) contacting the DNA population with an array of hybridization probes, each probe comprising a label cleavably attached to a known base sequence of predetermined